



PTO/SB/08A (08-03)
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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/033,051
		Filing Date	October 25, 2001
		First Named Inventor	Mehrotra et al.
		Art Unit	1731
		Examiner Name	Fiorilla, C.A.
Sheet 1 of 7	Attorney Docket Number	K-1436PD	

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U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages Relevant	Columns, Lines, Where Passages or Relevant Figures Appear
CF		US- 4,011,108	03/1977	Hellman et al.	X	X
CF		US- 4,038,092	07/1977	Baumgartner et al.	X	X
CF		US- 4,127,416	11/1978	Lumby et al.	X	X
CF		US- 4,227,842	10/1980	Samanta et al.	X	X
CF		US- 4,264,548	04/1981	Ezis	X	X
CF		US- 4,264,550	04/1981	Ezis	X	X
CF		US- 4,286,905	09/1981	Samanta	X	X
CF		US- 4,296,065	10/1981	Ishii et al.	X	X
CF		US- 4,388,085	06/1983	Sarin et al.	X	X
CF		US- 4,401,617	08/1983	Ezis et al.	X	X
CF		US- 4,406,667	09/1983	Sarin et al.	X	X
CF		US- 4,406,668	09/1983	Sarin et al.	X	X
CF		US- 4,409,003	10/1983	Sarin et al.	X	X
CF		US- 4,409,004	10/1983	Sarin et al.	X	X
CF		US- 4,416,670	11/1983	Sarin et al.	X	X
CF		US- 4,421,525	12/1983	Sarin et al.	X	X
CF		US- 4,431,431	02/1984	Sarin et al.	X	X
CF		US- 4,433,979	02/1984	Sarin et al.	X	X
CF		US- 4,434,238	02/1984	Ezis et al.	X	X

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶

Examiner Signature	CA Fiorilla	Date Considered	12/21/03
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CHRISTOPHER A. FIORILLA
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ART UNIT 1731



PTO/SB/08A (02-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Substitute for form 1449/PTO	
	Complete if Known	
	Application Number	10/033,051
	Filing Date	October 25, 2001
	First Named Inventor	Mehrotra et al.
Art Unit	1731	
Examiner Name	Fiorilla, C.A.	
Attorney Docket Number	K-1436PD	

Sheet 2 of 7

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
CF		US- 4,440,547	04/1984	Sarin et al.	X X	
CF		US- 4,440,707	04/1984	Shimamori et al.	X X	
CF		US- 4,441,894	04/1984	Sarin et al.	X X	
CF		US- 4,449,989	05/1984	Sarin et al.	X X	
CF		US- 4,497,228	02/1985	Sarin et al.	X X	
CF		US- 4,563,433	01/1996	Yeckley et al.	X X	
CF		US- 4,575,449	03/1986	Lueth	X X	
CF		US- 4,607,017	08/1986	Wolfe et al.	X X	
CF		US- 4,609,633	09/1986	Fukuhara et al.	X X	
CF		US- 4,632,910	12/1986	Lee et al.	X X	
CF		US- 4,640,693	02/1987	Bhat et al.	X X	
CF		US- 4,650,498	03/1987	Buljan	X X	
CF		US- 4,652,276	03/1987	Burden	X X	
CF		US- 4,670,024	06/1987	Bhat et al.	X X	
CF		US- 4,711,644	12/1987	Yeckley et al.	X X	
CF		US- 4,743,571	05/1988	Steinmann et al.	X X	
CF		US- 4,745,022	05/1988	Miyake et al.	X X	
CF		US- 4,769,350	09/1988	Nishioka et al.	X X	
CF		US- 4,789,277	12/1988	Rhodes et al.	X X	

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Examiner Signature	<i>CA Fiorilla</i>	Date Considered	12/21/03
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		First Named Inventor	Mehrotra et al.
		Art Unit	1731
		Examiner Name	Fiorilla, C.A.
		Attorney Docket Number	K-1436PD
Sheet	3	of	7

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		Number-Kind Code ² (if known)				
CE		US- 4,843,039	06/1989	Akesson et al.	X	X
CE		US- 4,848,984	07/1989	Ezis et al.	X	X
CE		US- 4,880,755	11/1989	Mehrotra	X	X
CE		US- 4,881,950	11/1989	Bhat et al.	X	X
CE		US- 4,892,792	01/1990	Sarin et al.	X	X
CE		US- 4,913,936	04/1990	Mehrotra et al.	X	X
CE		US- 4,946,630	08/1990	Ezis	X	X
CE		US- 4,959,331	09/1990	Mehrotra et al.	X	X
CE		US- 4,959,332	09/1990	Mehrotra et al.	X	X
CE		US- 4,960,735	10/1990	Mehrotra et al.	X	X
CE		US- 4,961,757	10/1990	Rhodes et al.	X	X
CE		US- 4,965,231	10/1990	Mehrotra et al.	X	X
CE		US- 5,024,976	06/1991	Mehrotra et al.	X	X
CE		US- 5,049,531	09/1991	Nakanishi et al.	X	X
CE		US- 5,079,198	01/1992	Edler et al.	X	X
CE		US- 5,110,770	05/1992	Brandt et al.	X	X
CE		US- 5,122,485	06/1992	Akimune	X	X
CE		US- 5,171,723	12/1992	Moriguchi et al.	X	X
CE		US- 5,198,165	03/1993	Akimune et al.	X	X

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
CE		DE 3938644	05/1990	NGK Spark Plug	X	
CE		DE 3939989	07/1990	NGK Spark Plug	X	
CE		DE 4000777	08/1990	NGK Spark Plug	X	
CE		EP 0107919	05/1984	British Cer. Re	X	
CE		EP 0298936	01/1989	Sandvik AB	X	
CE		EP 0497355	08/1992	NGK Spark Plug	X	

CLASS	SUB

Examiner Signature	<i>CA Fiorilla</i>	Date Considered	12/21/03
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Sheet 4 of 7

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Application Number	10/033,051
Filing Date	October 25, 2001
First Named Inventor	Mehrotra et al.
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U. S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)					
CE		US- 5,234,643	08/1993	Matsumoto	X	X	X
CE		US- 5,250,477	10/1993	Baldoni, II et al.	X	X	X
CE		US- 5,294,575	03/1994	Matsumoto	X	X	X
CE		US- 5,296,008	03/1994	Moriguchi et al.	X	X	X
CE		US- 5,308,561	05/1994	Leimer et al.	X	X	X
CE		US- 5,316,856	05/1994	Suzuki et al.	X	X	X
CE		US- 5,326,733	07/1994	Mizuno et al.	X	X	X
CE		US- 5,352,641	10/1994	Matsui et al.	X	X	X
CE		US- 5,370,716	12/1994	Mehrotra et al.	X	X	X
CE		US- 5,382,273	01/1995	Mehrotra et al.	X	X	X
CE		US- 5,384,081	01/1995	Wolting et al.	X	X	X
CE		US- 5,384,292	01/1995	Matsui et al.	X	X	X
CE		US- 5,405,592	04/1995	Edler et al.	X	X	X
CE		US- 5,411,923	05/1995	Suzuki et al.	X	X	X
CE		US- 5,424,256	06/1995	Yoshimura et al.	X	X	X
CE		US- 5,432,132	07/1995	Dasgupta et al.	X	X	X
CE		US- 5,439,855	08/1995	Rosenthal	X	X	X
CE		US- 5,445,776	08/1995	Honma et al.	X	X	X
CE		US- 5,449,649	09/1995	Li et al.	X	X	X

FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number *Kind Code ⁴ (if known)						
CE		EP 0499861	08/1992	Sumitomo El. In	X			
CE		EP 0589997	04/1994	AlliedSignal In	X			
CE		EP 0615963	09/1994	Sumitomo el. In	X			
CE		EP 0472256	08/1995	Dow Chemical Co	X			
CE		JP 0354143	03/1991	Honda Engineer	X			
CE		JP 3193666	08/1991	INAX, Inc.	X			

Examiner Signature	CA Fiorilla	Date Considered	12/21/03
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 5 of 7

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Art Unit	1731
Examiner Name	Fiorilla, C.A.
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		Document Number	Publication Date MM-DD-YYYY				
		Number-Kind Code* (if known)					
CE		US- 5,454,232	09/1995	Hida et al.	X	X	X
CE		US- 5,455,000	10/1995	Seyferth et al.	X	X	X
CE		US- 5,472,919	12/1995	Mitomo et al.	X	X	X
CE		US- 5,502,011	03/1996	Yamamoto et al.	X	X	X
CE		US- 5,525,134	06/1996	Mehrotra et al.	X	X	X
CE		US- 5,541,143	07/1996	Hirosaki et al.	X	X	X
CE		US- 5,545,362	08/1996	Hirosaki et al.	X	X	X
CE		US- 5,545,597	08/1996	Yeckley	X	X	X
CE		US- 5,571,760	11/1996	Pujari et al.	X	X	X
CE		US- 5,628,590	05/1997	Beeghly et al.	X	X	X
CE		US- RE35,538	06/1997	Akesson et al.	X	X	X
CE		US- 5,668,069	09/1997	Sato et al.	X	X	X
CE		US- 5,691,261	11/1997	Takahashi et al.	X	X	X
CE		US- 5,705,449	01/1998	Hirao et al.	X	X	X
CE		US- 5,720,917	02/1998	Matsuura et al.	X	X	X
CE		US- 5,759,481	06/1998	Pujari et al.	X	X	X
		US-					
		US-					
		US-					

FOREIGN PATENT DOCUMENTS						
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		Country Code* Number* Kind Code* (if known)				
CE		WO 9718177	05/1997	Kennametal Inc.		
CE		WO 9735817	10/1997	Sandvik AB		
CE		JP4-136174 (full English translation)	05/1992	Mitsubishi		

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-	-
-	-

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ART UNIT 1731

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Sheet

6

of

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Attorney Pocket Number	K-1436PD

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CF		SIVASANKARAN et al., "Wear of Ceramic Tools in Machining Cast Iron", pp. 293-301 (no date)	
CF		BEEGHLY et al., "Application-Specialized Ceramics: A Silicon Nitride for Machining Gray Cast Iron", pp. 91-99; ASM Conference: Tool Materials, Scottsdale, AZ (Feb. 1987).	
CF		JANARDHANA REDDY et al., "Comparative Studies of Ceramic and Tungsten Carbide Tools for Machining Gray Cast Iron", pp. 161-171; Conference: Advanced Ceramics; India (March, 1990)	
CF		TENNENHOUSE et al., "Interaction of Silicon Nitride and Metal Surfaces", J. Am. Ceramic Soc. 68 (1) C30-C31 (1995 no month).	
CF		AGRANOV et al., "Wear Behavior of Hot Pressed Silicon Nitride in Cutting of Cast Iron", Ind. Ceramics Vol. 8, No. 4 pp. 192-197 (1988 no month).	
CF		BHOLA et al., "Ceramic Cutting Tool Inserts", Key Engineering Materials, vols. 122-124 (1996), pp. 235-246 (no month).	
CF		NISHIOKA et al., "Mechanical Properties of Si ₃ N ₄ Ceramics with ZrO ₂ -addition under High Temperature and Observation of the Micro-Structure" (date unknown).	
CF		FALK et al., "Microstructure and Short Term Oxidation of Hot-Pressed Si ₃ N ₄ /ZrO ₂ (+Y ₂ O ₃) Ceramics", J. Am. Ceramic Soc. 75 (1) (1992) pp. 28-35 (no month).	

Examiner
Signature

CA Fiorilla

Date
Considered

12/21/03

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(Information Disclosure Statement by Applicant (PTO/SB/08B) Other Prior Art—NonPatent Literature Documents (1449A/PTO) [6-2.1]—page 1 of 1)

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